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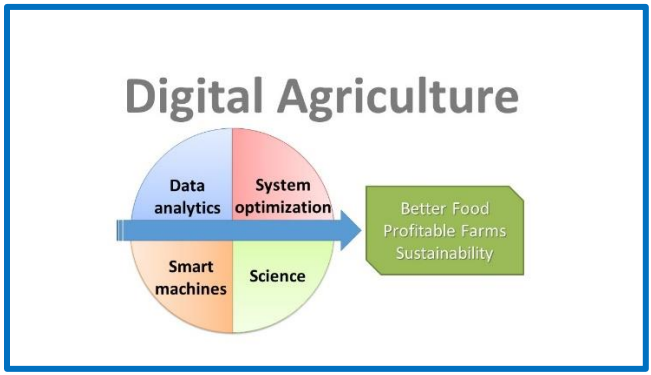
C-FAR

THE NATIONAL COALITION FOR FOOD & AGRICULTURAL RESEARCH

Program:

DIGITAL AGRICULTURE



Technology Innovation in Complex Production Environments

June 12, 2017

PROGRAM

Welcome and Introduction

DR. JULIE MCCLURE
NATIONAL C-FAR REPRESENTATIVE

Distinguished Speaker

DR. HAROLD VAN ES
PROFESSOR OF SOIL SCIENCE
CORNELL UNIVERSITY

Open Forum

Closing

DR. JULIE MCCLURE

NATIONAL C-FAR IS a nonprofit, nonpartisan, consensus-based and customer-led coalition that brings food, agriculture, nutrition, conservation and natural resource stakeholders together with the food and agriculture research and extension community, serving as a forum and a unified voice in support of sustaining and increasing public investment at the national level in food and agricultural research, extension, and education.

ABSTRACT

Agriculture and the worldwide food system are challenged to feed a global population of almost 10 billion people by 2050 with diminishing land and water resources. Agriculture is complex and involves interacting physical, biological, and chemical processes, which need to be considered in a wide diversity of practices, production environments, and socio-economic conditions on farms. Digital agriculture offers new opportunities to address these complexities through the ubiquitous availability of highly interconnected and data-intensive computational technologies as part of the so-called Fourth Industrial Revolution. It reflects a shift from generalized management of farm resources towards highly optimized, individualized, real-time, hyper-connected and data-driven management, thereby allowing higher production efficiencies and sustainability in farming.

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SPEAKER BIOGRAPHY

Harold van Es, Ph.D., is a Professor of Soil Science and a Faculty Fellow of the Atkinson Center for Sustainability at Cornell University. He was the 2016 President of the Soil Science Society of America. He directed the Cornell University Computational Agriculture Initiative and pioneered new technology for precision corn nitrogen management using digital technologies (Adapt-N), which was commercialized by Agronomic Technology Corporation and is used in several sustainability initiatives. He also leads the Cornell Soil Health Initiative and co-developed the Comprehensive Assessment of Soil Health Framework.

SEMINAR SERIES DESCRIPTION

National C-FAR's Seminar Series regularly presents leading-edge researchers to address pressing issues confronting the public and Congress. National C-FAR and the Seminar Series serve as a resource to policymakers and staff.

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